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**Zeitschrift für Physik**

**Neu eingegangene Arbeiten**

**B. Focke, A. Goldmann, J. Hadijuana, M. v. Hartrott, K. Nishiyama, and D. Riegel,** Fachbereich Physik, Institut für Atom- und Festkörperphysik Freie Universität Berlin:

**A new Isomer in $^{205}$Po**

A new isomer with $T_{1/2}=58\pm2$ ms has been observed in $^{205}$Po. We propose the assignments $I^{\pi}=19/2^{-}$ and an excitation energy $E_x=1461$ keV.

**I. J. van Heerden and W. R. McMurray,** Southern Universities Nuclear Institute, Faure, South Africa,
**R. Saayman,** Merensky Institute for Physics, University of Stellenbosch South Africa:

**A Study of the $^{93}$Nb Levels Populated Via the $(n, n'\gamma)$ Reaction**

De-excitation $\gamma$-rays from levels in $^{93}$Nb up to 2203 keV were observed following inelastic neutron scattering at incident energies between 0.6 and 2.575 MeV. The energy level and decay modes of $^{93}$Nb are deduced. Spin and parity assignments are based on the comparison of the experimental $(n, n')$ cross sections with calculated cross sections using Hauser-Feshbach theory corrected for level-width fluctuation corrections. The low-lying levels of $^{93}$Nb have been studied within the framework of the vibration-particle model to account for their energy and spin assignments, as well as the reduced transition probabilities measured in Coulomb excitation experiments.

**G. Hrehuss, A. Kiss, K. T. Knöpfle, C. Mayer-Böricke, M. Rogge, U. Schwinn, T. Tamura, and P. Turek,** Institut für Kernphysik der Kernforschungsanlage Jülich:

**Optical Model and Coupled-Channel Analysis of 60–90 MeV Deuteron Scattering from $^{24}$Mg and $^{89}$Y**

Angular distributions of deuterons scattered from $^{24}$Mg and $^{89}$Y in the angular range $12°\rightarrow100°$ have been measured at $E_d=60$, 77 and 90 MeV. With some exceptions the elastic and inelastic data were found to be described consistently by the optical model approach and by coupled-channel analysis, respectively. Collective model features of $^{24}$Mg are derived from the inelastic scattering results.

**H. Werle,** Institut für Neutronenphysik und Reaktortechnik Kernforschungszentrum Karlsruhe,
**L. Van der Zwan and K. W. Geiger,** Division of Physics, National Research Council, Ottawa, Canada:

**The Neutron Continuum from the $^{9}$Be+α Reaction**

Spectra of the low energy neutron continuum between 0.1 and 2.4 MeV from the Be+α reaction were measured at 5.01, 5.44, 6.37 and 7.44 MeV bombarding energies and different angles of neutron emission. The intensity is strongly peaked in the forward direction and the neutron distributions show maxima between 0.3 and 0.6 MeV. The results are consistent with the assumption that the continuum is due to the sequential decay $^{9}\mathrm{Be}(\alpha,\alpha')^{9}\mathrm{Be}^{*}\rightarrow{}^{8}\mathrm{Be}+n$. The shape and magnitude of the continuum from a $^{241}$Am–Be$(\alpha, n)$ source were determined as well.

**R. Finzel und G. Schäfer,** I. Physikalisches Institut der Technischen Universität Berlin:

**Gegenseitige Beeinflussung der beiden $Ar^+$-Laserlinien 4880 und 5145 Å (Mutual Influence of the two $Ar^+$-Laser-Transitions 4880 and 5145 Å)**

The $Ar^+$-laser-transition 4880 Å shows a decrease of the output power caused by the simultaneous laser action of the transition 5145 Å. Both lines correspond to the same lower level. The mutual influence of these transitions was calculated by solving the rate equations for the density of the excited ions. The calculations were compared with experiments.

**J. F. W. Jansen,** Instituut voor Kernphysisch Onderzoek (IKO), Amsterdam, Netherlands and Kernfysisch Versneller Instituut (KVI), Groningen, Netherlands,
**A. Fass and W. J. B. Winter,** Instituut voor Kernphysisch Onderzoek (IKO), Amsterdam, Netherlands:

**Excited States in $^{195}$Pt from the Decay of 2.3 h $^{195}$Ir$^g$, 3.7 h $^{195}$Ir$^m$ and 183 d $^{195}$Au**

The decay of two previously reported isomers in $^{195}$Ir has been investigated with Ge(Li) and Si(Li) detectors by observing $\beta$ and $\gamma$ rays as well as conversion electrons in single and coincidence measurements. To about 30 of the 85 observed transitions a multipolarity was assigned. The energies of the gamma rays from $^{195}$Au were also determined accurately. The decay scheme of $^{195}$Ir shows 13 new levels in $^{195}$Pt between 389 and 931 keV. Probable spin and parity assignments could be made to most levels. The results are compared with those of a recent Coulomb excitation study, reaction work and theoretical calculations.

**B. Schneck und A. Hofmann,** Physikalisches Institut der Universität Erlangen-Nürnberg:

**Systematische Untersuchungen zum Optischen Modell der Deuteronenstreuung an $^{24,26}$Mg und $^{28,30}$Si (Systematic Optical-Model Analysis of Deuteron Scattering from $^{24,26}$Mg and $^{28,30}$Si)**

Differential cross sections for 10 MeV deuterons, elastically scattered from $^{24,26}$Mg and $^{28,30}$Si have een measured. The scattering data have been analysed systematically in the framework of the optical model. It was found, that an uniform set of parameters, which is able to reproduce reasonably the angular distributions for the four nuclei, does not exist. Both the Mg distributions as well as both the Si distributions, however, can be described well with one set of parameters, respectively.

**F. Ackermann, I. Platz, and G. zu Putlitz,** I. Physikalisches Institut der Universität Heidelberg:

**Nuclear Quadrupole Moments of Radioactive $^{83}$Rb, $^{84}$Rb and $^{86}$Rb**

Excited atomic $^2P_{3/2}$-states of radioactive Rb isotopes have been investigated by level crossing and optical double resonance spectroscopy. The measured hyperfine structure constants yielded the nuclear moments

$$\mu_I(^{84}\mathrm{Rb}) = -1.296(11)\,\mu_K \qquad Q(^{83}\mathrm{Rb}) = +0.27(6)\cdot 10^{-24}\,\mathrm{cm}^2$$
$$Q(^{84}\mathrm{Rb}) = +0.004(12)\cdot 10^{-24}\,\mathrm{cm}^2$$
$$Q(^{86}\mathrm{Rb}) = +0.20(3)\cdot 10^{-24}\,\mathrm{cm}^2$$

and the hyperfine anomaly $_{84}\Delta_{85} = +1.7(1.0)\cdot 10^{-2}$. The quadrupole moments of $^{83}$Rb to $^{87}$Rb can be explained with the unified model of vibrations.

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